



NAPCO[®]

333 Bayview Avenue
Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440
Publicly traded on NASDAQ Symbol: NSSC

© NAPCO 2010

GEMC-FPRINT

Parallel Printer Interface

INSTALLATION INSTRUCTIONS

WI1708 08/10

GENERAL DESCRIPTION

The GEMC-FPRINT Parallel Printer Interface is a Fire bus-connected device that allows the Gemini C-Series control panels to be connected to a parallel printer for the purpose of recording system activity. When installed on a Gemini C-Series control panel that has been programmed via PCD-Windows v.6.0 (or greater), the GEMC-FPRINT will create reports using the same custom User, Area and Zone descriptions which have been entered into the downloader software (see PROGRAMMING). The GEMC-FPRINT provides signal and ground isolation between the control panel and the printer and protects the control panel from shorts, transients and surges that may emanate from the printer or the associated cabling. **Note:** The tamper switch (see wiring diagram for location) will NOT function when used on a Gemini C-Series control panel Fire system or Combination Fire/Burglary system.

SPECIFICATIONS

Electrical Ratings

Input Power: 12VDC nominal; 90mA maximum.

Output Power: N/A.

Dimensions: 1½" x 7" x 4¾" (3.8 x 17.8 x 12cm) H x W x D

MAXIMUM WIRE LENGTH

The GEMC-FPRINT may be mounted on the control panel fire bus up to 500 feet (with #22AWG wire) or 1000 feet (with #18AWG wire) from the control panel. The Parallel Printer must be mounted with 20 feet (6.1m) of the GEMC-FPRINT module and shall reside in the same room as the GEMC-FPRINT with no intervening walls or barriers.

SYSTEM REQUIREMENTS

The following system hardware is required:

- Gemini C-Series Control Panel
- Standard PC Printer Cable (DB25 to 36 pin *Centronics*)
- Parallel Printer - Dot Matrix printer preferred.
- **NOT compatible with "Win Printers" or Laser Jet / Ink Jet printers requiring a Windows-based operating system.**

MOUNTING INSTRUCTIONS

Mount the GEMC-FPRINT to flat surface with two 1-inch (2.54cm) #8 screws in mounting ears on either side of case.

CONNECTION

- Connect the GEMC-FPRINT terminals 1-4 to the control panel fire bus as per the wiring diagram.
- Connect the Parallel Printer to the GEMC-FPRINT using Standard PC Printer Cable (DB25 to 36 pin *Centronics*).

OPERATION

The GEMC-FPRINT is fully automatic except for paper changes. Push Button SW3 (inside box) for paper alignment and Form Feed functions. JP1 must have shunt connector across Pin 1 (See table below). Programmable Printer Supervision: The Control Panel can supervise the printer and cause an E27-00 Printer Supervision System Trouble under the following conditions:

- The Printer fails to respond to a print request
- An idle Printer fails to respond to a poll within 30 minutes
- The Printer is out of paper

NOTE: To disable Printer Supervision, see chart below.

JP1 and SW3 Button Operation		
Short JP1 Pin #	Press Button SW3	Operation
1	5 Seconds	Form Feed
1	Momentary	Paper Align
2	Not Used	Not Used
3	5 Seconds	Disable Printer Supervision

PROGRAMMING

The GEMC-FPRINT is UL-listed for supplemental use only. The printer used in conjunction with the GEMC-FPRINT must also bear the UL listing mark.

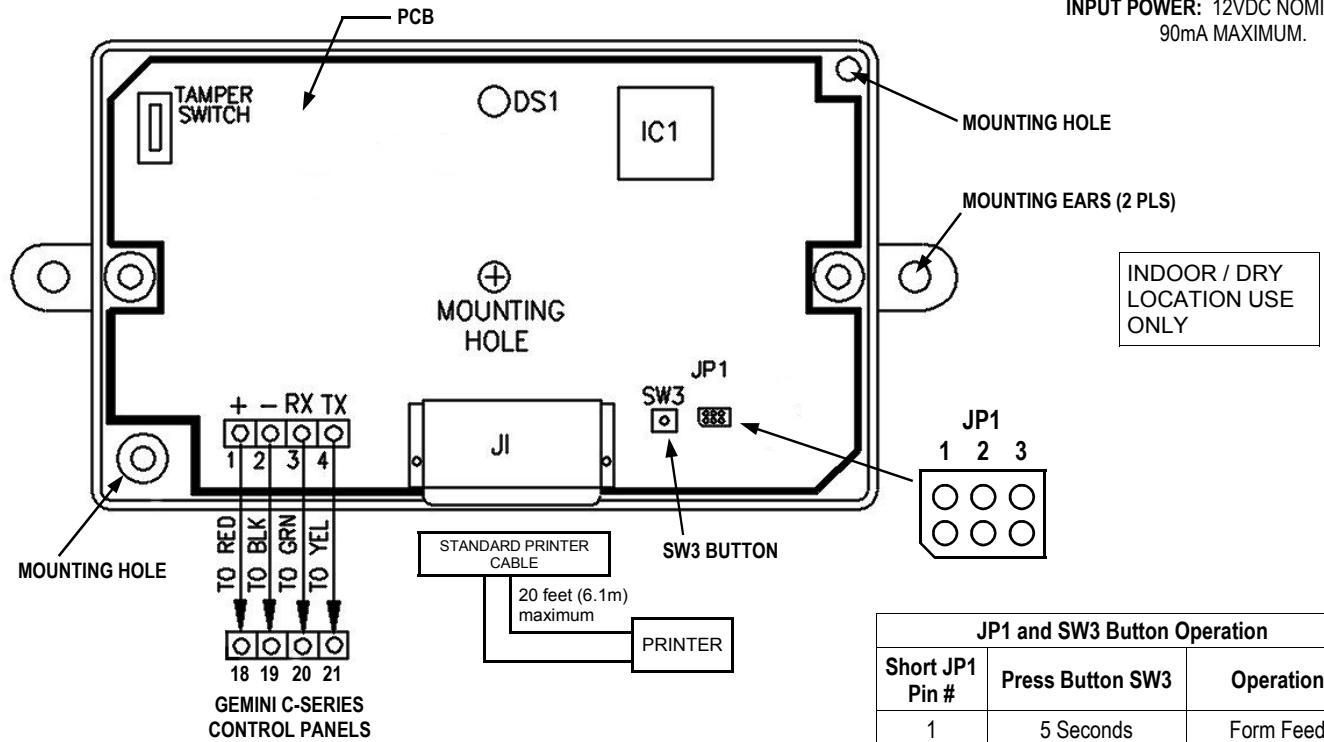
Using **PCD-Windows**, version 6.0 or greater; for use with all version control panels listed in "GENERAL DESCRIPTION" above:

1. Enable GEMC-FPRINT in the **System Assignment** screen, **System Options** tab;
2. Configure GEMC-FPRINT in the **System Assignment** screen, **GEMC-FPRINT Formatting** tab;
3. Enter zone descriptions in the **Zone Assignment** screen;
4. Enter area descriptions in the **Area Assignment** screen, **Area Descriptions** tab;
5. Enter user descriptions in the **User Assignment** screen, **User/System Codes** tab;
6. Enter local or remote downloading by holding the Shift key on the keyboard and selecting the appropriate method of communications. Upon selecting **Download to Panel**, select the following:

- **Dealer**
- **Descriptions**
- **Configuration**
- **Languages/Messages.**

GEMC-FPRINT WIRING DIAGRAM

ELECTRICAL RATINGS
 INPUT POWER: 12VDC NOMINAL;
 90mA MAXIMUM.



INDOOR / DRY
 LOCATION USE
 ONLY

NOTES:

- ONE WIRE PER TERMINAL ONLY.
- WIRE RANGE 18-22 AWG.

SEE WI1708

JP1 and SW3 Button Operation		
Short JP1 Pin #	Press Button SW3	Operation
1	5 Seconds	Form Feed
1	Momentary	Paper Align
2	Not Used	Not Used
3	5 Seconds	Disable Printer Supervision

IMPORTANT WIRING METHODS

<p>For single-conductor terminal blocks (like the type shown at left), to terminate more than one conductor to a terminal, use the wiring methods shown at right:</p>	<p>Incorrect</p>	<p>Correct -- Single incoming and/or pigtail with wire nut / crimp connectors</p>
<p>For "barrier" type terminal blocks (like the type shown at left), to terminate two conductors to a terminal, use the wiring methods shown at right:</p>	<p>Incorrect</p>	<p>Correct -- Separate incoming and outgoing conductors</p>
<p>To terminate more than two conductors or conductors of different wire sizes to a terminal, use the "pigtail" type wiring method as shown at right. Use insulated wire for the pigtail, and firmly secure the conductors to the pigtail using an appropriate wire nut or crimp connector for the number and gauge of conductors used.</p>	<p>Incorrect</p>	<p>Correct -- Use pigtail and wire nut / crimp connector</p>

THIS PAGE INTENTIONALLY LEFT BLANK

NAPCO LIMITED WARRANTY

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for *thirty-six months* following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person purporting to act on its

behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.